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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,849	04/14/2006	Michael Keller	2803 1117US 9381	
	7590 05/15/200 LENDORF, STEIMLE	EXAMINER		
POSTFACH 10	37 62	TURNER, ARCHENE A		
D-70032 STUT GERMANY	IUAKI,		ART UNIT	PAPER NUMBER
			1794	
		MAIL DATE	DELIVERY MODE	
			05/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	an No	Applicant(s)				
Office Action Summary								
		10/575,84		KELLER ET AL.				
	omee Action Gammary	Examiner		Art Unit				
		Archene T		1794				
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the	e cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
_	Desparative to communication(s) filed a	n 11 Anril 2006						
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2a)□	<i>'-</i>			acception as to the	morito io			
3)								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) 7-14 is/are pending in the appl	ication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>7-14</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction	n and/or election r	equirement.					
Annlicati	on Papers							
		ve maine a m						
•	The specification is objected to by the Ex		Dahiaatad ta by the I	Evaminar				
ا_ا(۱۰	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
		• , ,	-	• •	-D 4 404/4)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-section Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 4/06.	948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 13-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what the units are for the claimed hardness, rendering the claim indefinite.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 7,10,13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Kobayashi (6,615,689).

Kobayashi discloses the claimed DLC on a gear.

5. Claims 7,10,13-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki et al (6,177,754) or Lev et al (6,170,156)

Suzuki et al or Lev et al discloses the claimed DLC on a gear.

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6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi or Suzuki et al or Lev et al (as above) in view of Inoue (JP 2000265242).

Kobayashi or Suzuki et al or Lev et al discloses the invention substantially as

claimed except for the explicit disclosure of the claimed thickness.

It would have been obvious to one of ordinary skill in the art to provide for the hard coating with the claimed thickness, as one of ordinary skill would how that within the claimed range would be sufficient to provide the substrate with the desired protection.

8. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi or Suzuki et al or Lev et al (as above) in view of Inoue (JP 2000265242).

Kobayashi or Suzuki et al or Lev et al discloses the invention substantially as claimed except for the claimed composition of the substrate.

Inoue discloses the claimed composition.

Thus it would have been obvious to one of ordinary skill in the art to provide the substrate with the claimed composition, as this composition is known in the art as shown by Inoue.

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Archene Turner whose new telephone number is (571)

272-1545. The examiner can normally be reached on Monday, Wednesday through

Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Milton Cano can be reached on (571) 272-1398. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Please remember to include on the fax, the art unit 1775, serial number and Examiner's

name.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/A. A. Turner/
Primary Examiner
Group 1700

aat